

OXC - 3865  
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17 August 1962

MEMORANDUM FOR THE RECORD

SUBJECT : Trip Report

25X1 1. Purpose: To examine image transmission equipment at [ ]  
[ ] to discuss development of a pocket tape recorder  
prompter and to discuss initial flight test results of the Type I  
package with Perkin-Elmer.

25X1A 2. Background: [ ] has developed and delivered a pocket tape  
recorder to TSD whose dimensions are 7/8" x 2 1/2" x 5 1/4" and a  
total weight of 12 ounces. The recorder is cartridge loaded, silent,  
battery driven and has binaural pick up. A modification of this unit  
to provide destruct capability, 10 hour timing capability and pre-  
25X1A programmed audio prompting capability should satisfy the drivers  
mission requirement for notetaking and mission planning.

25X1A 4. [ ] will submit a proposal to TSD for this modification by  
20 August on the basis of two each prototypes complete by 1 January  
1963. TSD will fund under a continuation of their present contract  
25X1A and will monitor progress.

25X1 5. Examined graphic information transmission system [ ] is  
delivering to [ ] This unit scans processed 70 mm film  
and transmits the negative to another machine that reconstitutes the  
image on 5" negative, process this and displays it on a viewer.  
25X1 Resolution of the product was about 40 lines/mm.

25X1 6. [ ] has recently completed an improved lip microphone for  
ASD that has much improved characteristics over the M-55/A1C and  
M-87/A1C currently in use by USAF. Model is designated M-93 (XA-1)/  
A1C. Will check with cognizant people for application to "O" and  
"I".

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7. Visited Perkin-Elmer and discussed initial flight test of Type I package with [redacted]

[redacted] Preliminary results indicate successful operation of the camera with up to 100 lines/mm resolution. 4200 feet of film, two hours running time, V/H 26 to 40 miliradians/sec. No IMC, no automatic caging, no V/H. Altitudes were 8200, 9200, 10,200, 11,200 and 12,200 over and adjacent to the targets at 120 knots.

8. No progress on welding vacuum window. Rework of the package is being accomplished to correct bugs surfaced during test flight.

9. Reasons given for theodolite, optical benches, photometer and accelerometer for Area were reasonable.

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10. Asked [redacted] authorize three data inputs for instrumentation of tape recorder so these can be installed in the #1 unit while it is being reworked after initial flight test.

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[redacted]  
Development Division/  
OSA-DD/R

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